

CLAIMS

2 1. A devitalized matrix for inducing repair of tissue defects in a mammal,
3 comprising:

4 an isolated devitalized mammalian epithelial basement membrane and tunica
5 propria immediately subjacent to said basement membrane.

1 2. The matrix of claim 1 wherein said basement membrane is derived from
2 urinary bladder.

1 3. The matrix of claim 1 wherein said basement membrane is derived from
2 small intestine.

1 4. The matrix of claim 1 wherein said matrix is sutured at said tissue defect.

1 5. The matrix of claim 1 wherein said matrix is injected into said tissue
2 defect.

1 6. The matrix of claim 1 wherein said matrix is applied to a tissue defect
2 fixation device.

1 7. The matrix of claim 1 wherein said matrix is mixed with a pharmaceutical
2 agent.

1 8. A method for inducing repair of a tissue defect in a mammal, said method
2 comprising:

3 providing to a defect site, a devitalized matrix comprising a mammalian epithelial
4 basement membrane and tunica propria immediately subjacent to said basement
5 membrane.

1 9. The method of claim 8 wherein said repair comprises induction of
2 connective tissue repair and epithelial tissue repair at said tissue defect site.

1 10. A devitalized composition, comprising:

2 mammalian epithelial basement membrane and tunica propria immediately
3 subjacent to said epithelial basement membrane, wherein said basement membrane and

4 tunica propria are delaminated from cells of an epithelium and abluminal portions of a
5 tunica propria of a mammalian epithelial tissue.

1 11. A devitalized composition, comprising:

2 mammalian epithelial basement membrane, tunica propria, and smooth muscle
3 cells of the tunica muscularis, wherein said basement membrane, tunica propria, and
4 smooth muscle are delaminated from epithelial cells of a mammalian epithelium.

1 12. A devitalized composition, comprising:

2 mammalian epithelial basement membrane and submucosa, wherein said
3 basement membrane and submucosa are delaminated from the cells of an epithelium and
4 tunica muscularis of a mammalian epithelial tissue.

1 13. A method for manufacture of a devitalized tissue graft composition,
2 comprising:

3 soaking a mammalian epithelial tissue in a deepithelializing solution to form a
4 deepithelialized tissue having an epithelial basement membrane; and,

5 abrading said deepithelialized tissue on an abluminal surface of said tissue to form
6 a delaminated tissue, wherein the delaminated tissue remaining after abrading said tissue,
7 comprises at least a portion of the epithelial basement membrane and said delaminated
8 tissue comprising said basement membrane induces endogenous tissue restoration.

1 14. The method of claim 13 wherein said deepithelializing solution comprises
2 1.0 N saline.

1 15. The method of claim 13 wherein said abluminal surface comprises a tissue
2 surface deeper than said epithelial basement membrane.

1 16. The method of claim 13 wherein said epithelial tissue comprises urinary
2 bladder.

1 17. The method of claim 13 wherein said epithelial tissue comprises small
2 intestine.